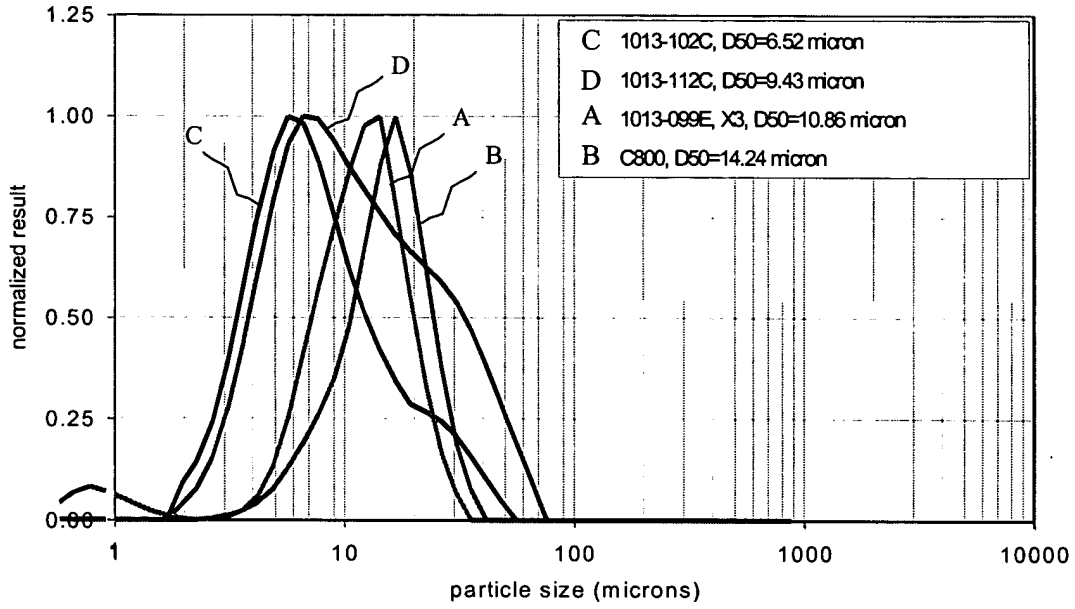
1.25
1.00
0.75
0.50
0.25
0.00
normalized result
1
10
100
1000
10000
particle size (microns)
C 1013-102C, D50=6.52 micron
D 1013-112C, D50=9.43 micron
A 1013-099E, X3, D50=10.86 micron
B C800, D50=14.24 micron
C
D
A
B

FIG. 1

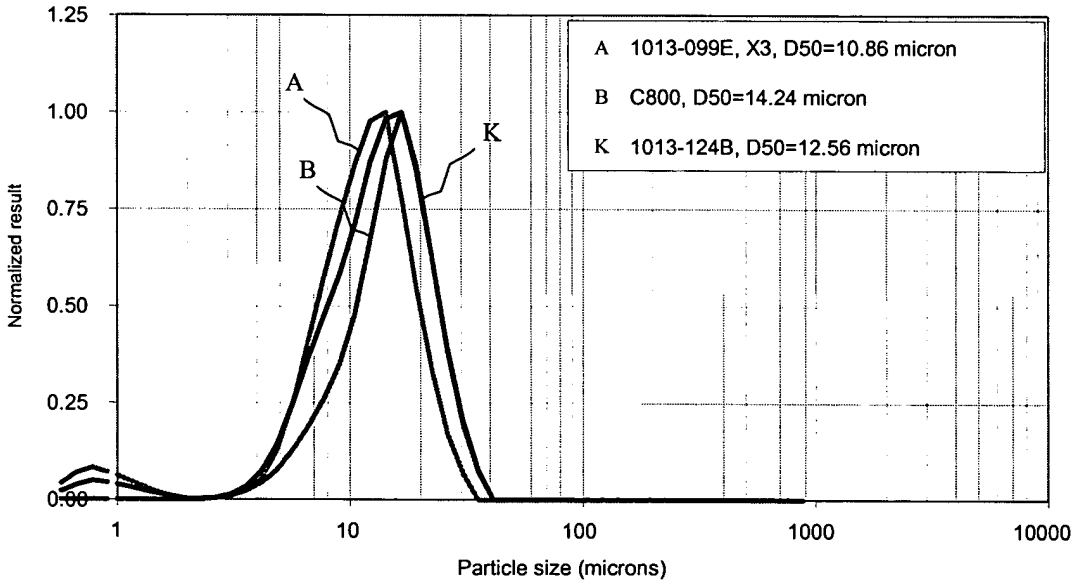
1.25
1.00
0.75
0.50
0.25
0.00
Normalized result
1
10
100
1000
10000
Particle size (microns)
A 1013-099E, X3, D50=10.86 micron
B C800, D50=14.24 micron
K 1013-124B, D50=12.56 micron
A
B
K

FIG. 2

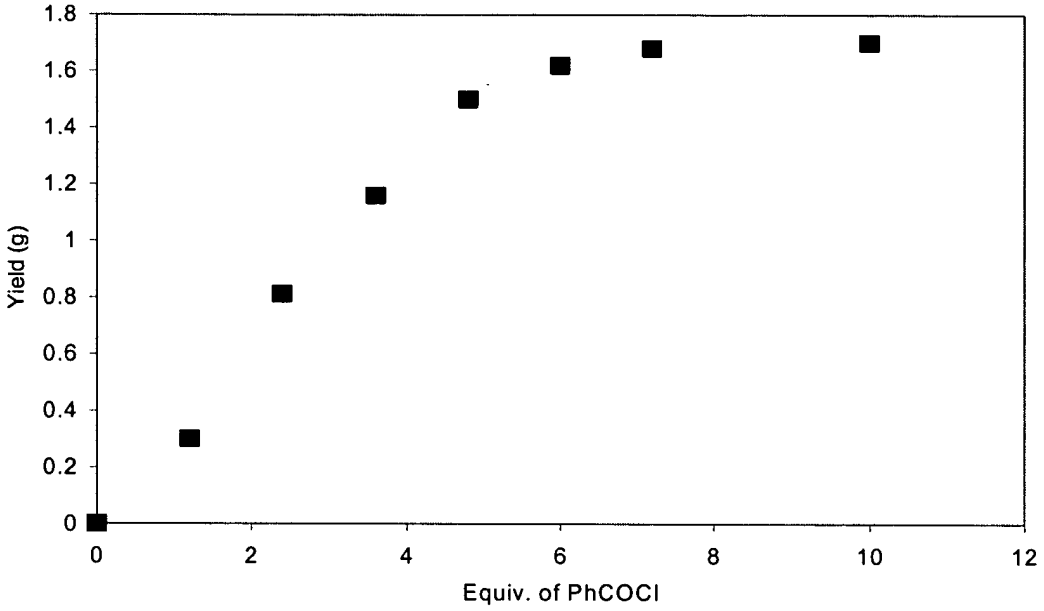
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Yield (g)
0
2
4
6
8
10
12
Equiv. of PhCOCl

FIG. 3

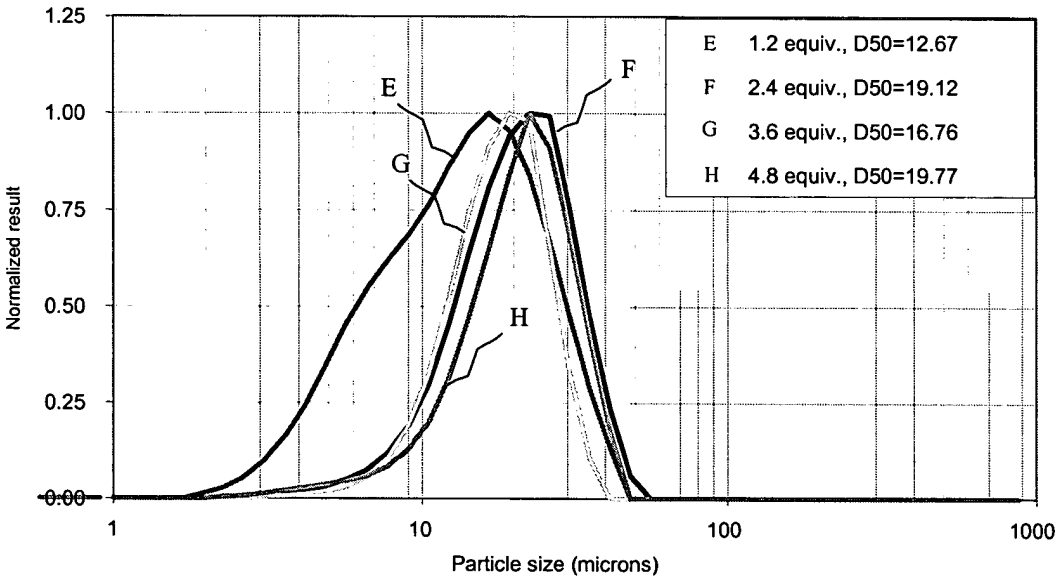
1.25
1.00
0.75
0.50
0.25
0.00
Normalized result
1
10
100
1000
Particle size (microns)
E
F
G
H
E 1.2 equiv., D50=12.67
F 2.4 equiv., D50=19.12
G 3.6 equiv., D50=16.76
H 4.8 equiv., D50=19.77

FIG. 4

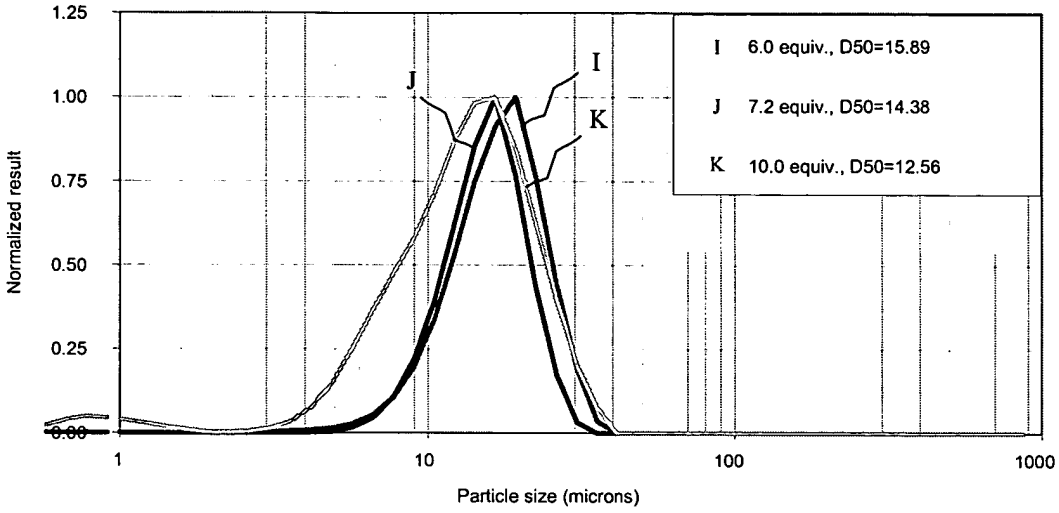
1.25
1.00
0.75
0.50
0.25
0.00
Normalized result
1
10
100
1000
Particle size (microns)
I
J
K
I 6.0 equiv., D50=15.89
J 7.2 equiv., D50=14.38
K 10.0 equiv., D50=12.56

FIG. 5

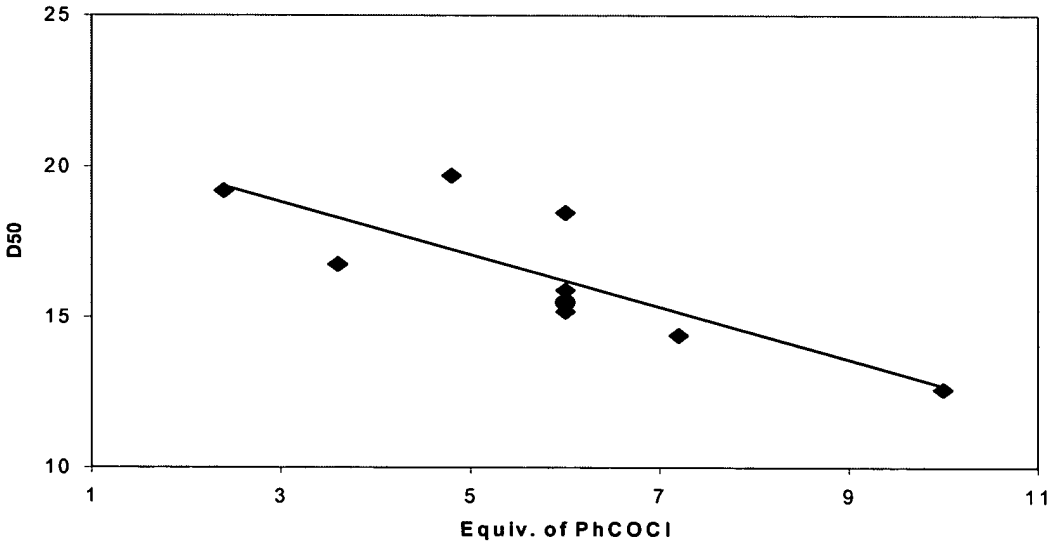
25
20
15
10
D50
1
3
5
7
9
11
Equiv. of PhCOCl

FIG. 6

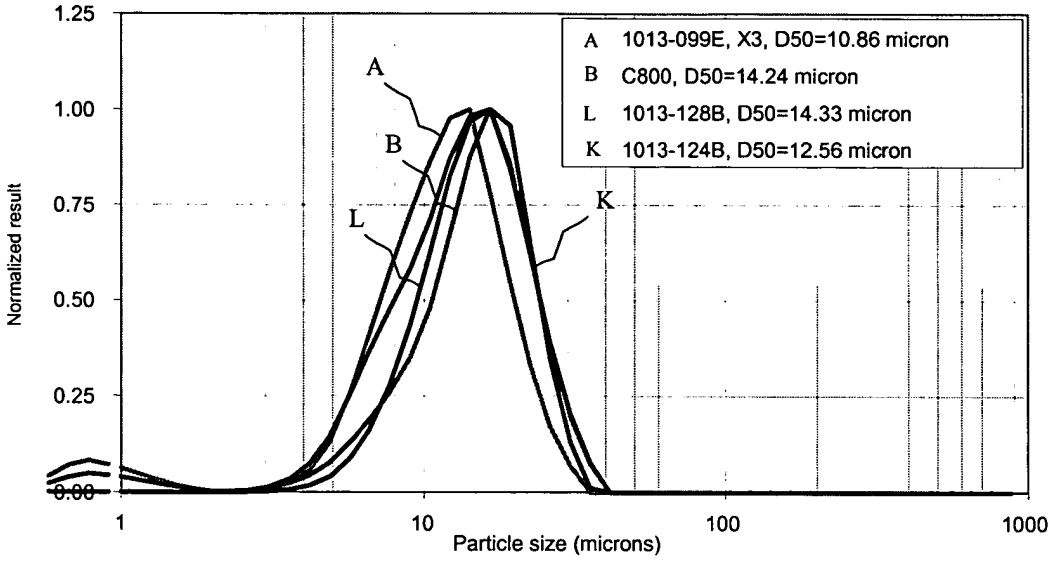
1.25
1.00
0.75
0.50
0.25
0.00
Normalized result
1
10
100
1000
Particle size (microns)
A 1013-099E, X3, D50=10.86 micron
B C800, D50=14.24 micron
L 1013-128B, D50=14.33 micron
K 1013-124B, D50=12.56 micron
A
B
L
K

FIG. 7

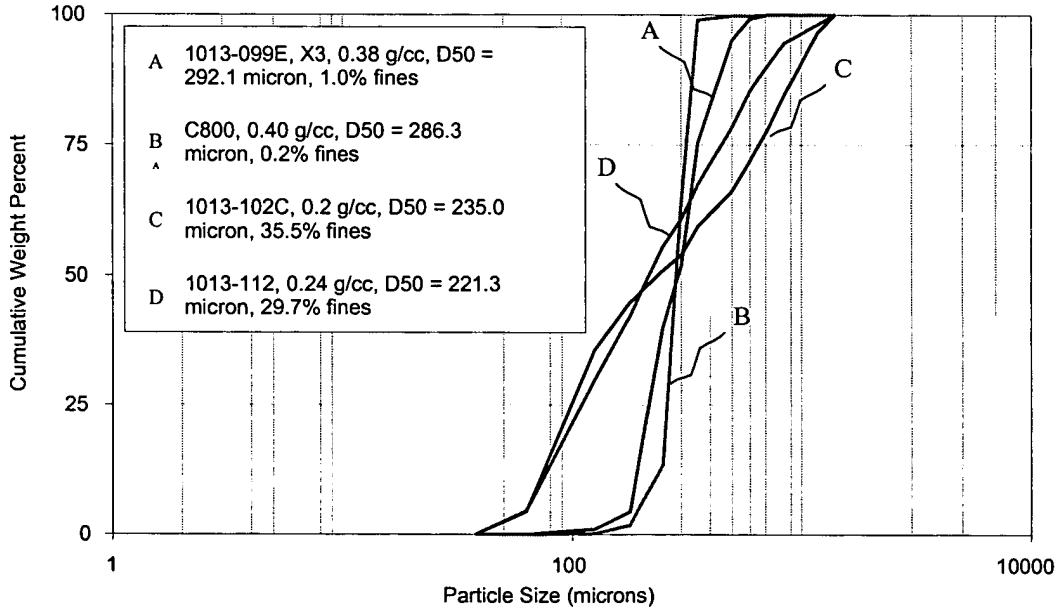
100
75
50
25
0
Cumulative Weight Percent
1
100
10000
Particle Size (microns)
A 1013-099E, X3, 0.38 g/cc, D50 = 292.1 micron, 1.0% fines
B C800, 0.40 g/cc, D50 = 286.3 micron, 0.2% fines
C 1013-102C, 0.2 g/cc, D50 = 235.0 micron, 35.5% fines
D 1013-112, 0.24 g/cc, D50 = 221.3 micron, 29.7% fines
A
B
C
D

FIG. 8

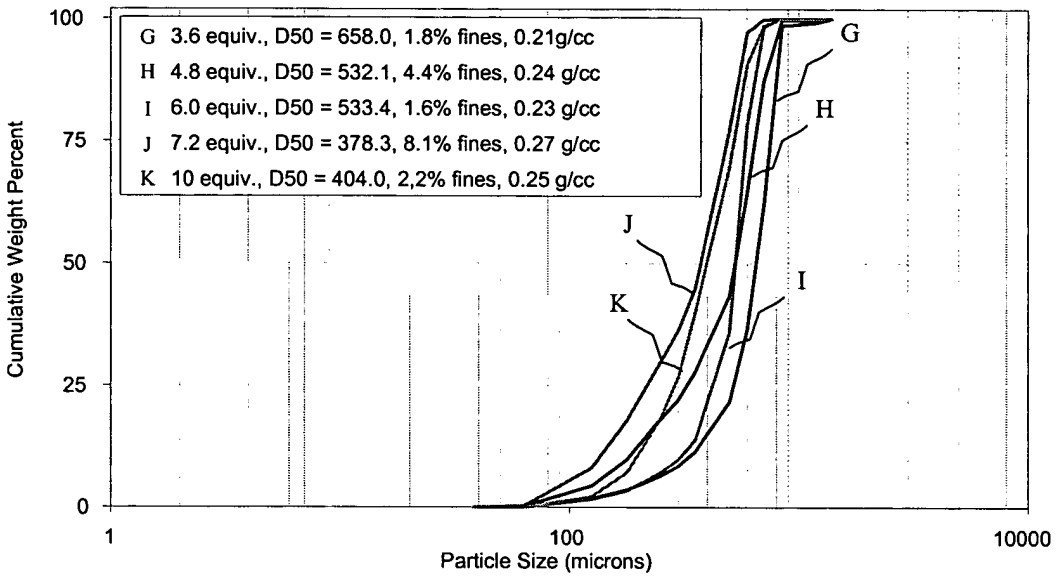
G 3.6 equiv., D50 = 658.0, 1.8% fines, 0.21g/cc
H 4.8 equiv., D50 = 532.1, 4.4% fines, 0.24 g/cc
I 6.0 equiv., D50 = 533.4, 1.6% fines, 0.23 g/cc
J 7.2 equiv., D50 = 378.3, 8.1% fines, 0.27 g/cc
K 10 equiv., D50 = 404.0, 2,2% fines, 0.25 g/cc
Cumulative Weight Percent
100
75
50
25
0
1
100
10000
Particle Size (microns)
G
H
I
J
K

FIG. 9

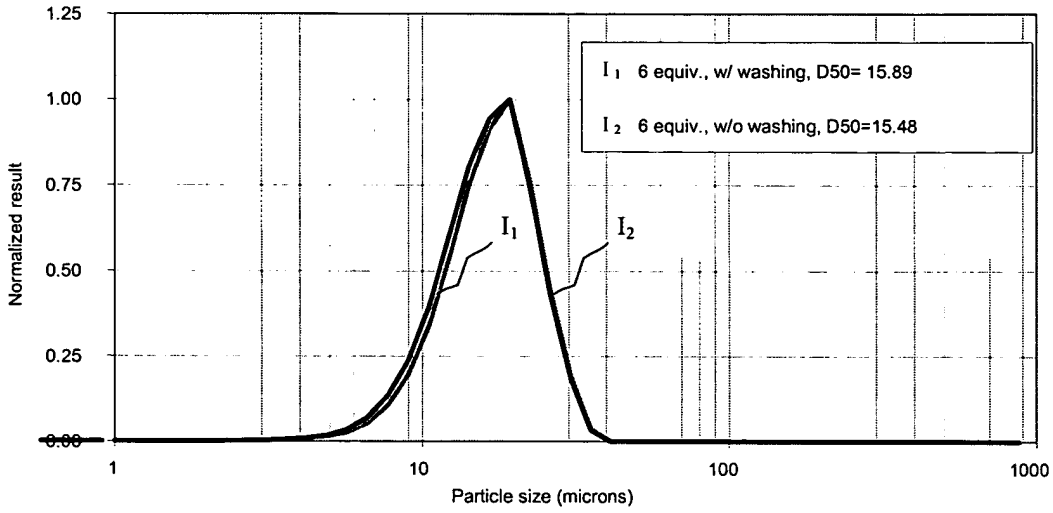
1.25
1.00
0.75
0.50
0.25
0.00
Normalized result
I 1 6 equiv., w/ washing, D50= 15.89
I 2 6 equiv., w/o washing, D50=15.48
I1
I2
1
10
100
1000
Particle size (microns)

FIG. 10

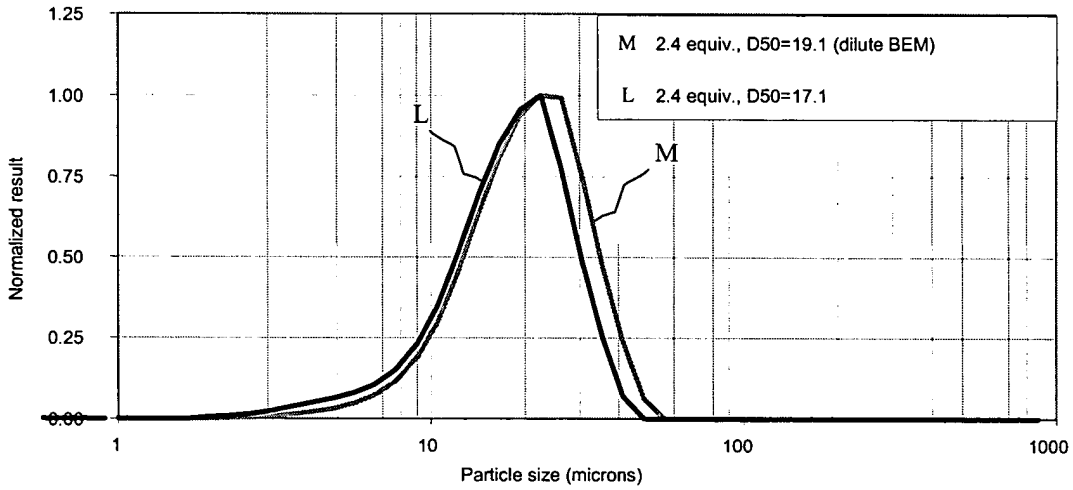
1.25
1.00
0.75
0.50
0.25
0.00
Normalized result
M 2.4 equiv., D50=19.1 (dilute BEM)
L 2.4 equiv., D50=17.1
L
M
1
10
100
1000
Particle size (microns)

FIG. 11